

## Product Change Notice (PCN)

**Date:** 12/28/2022

**PCN Number:** PCN-0454852R-01

To Our Customers:

We appreciate your use of our products. Our commitment in maintaining and improving processes is demonstrated by plans to enhance our product quality, reliability, and manufacturability. The purpose of this notice is to inform you of a product change.

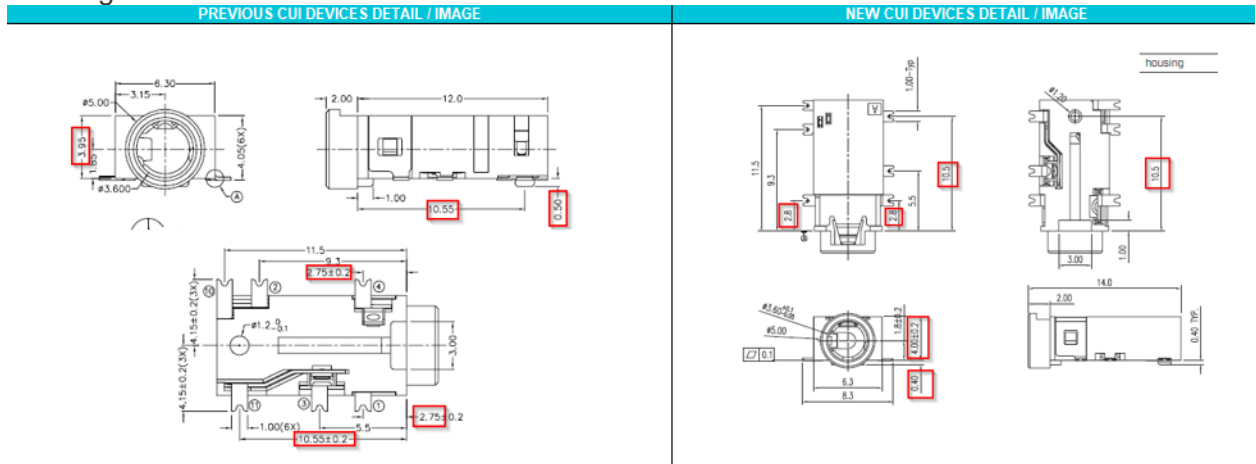
Product(s) Affected:

SJ2-35954A-SMT-TR, SJ2-35954B-SMT-TR, SJ2-35954D-SMT-TR

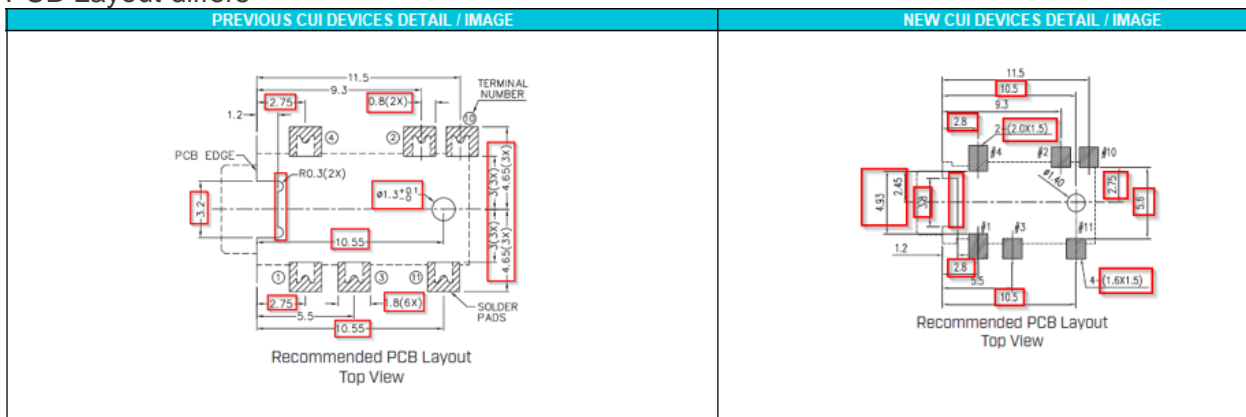
Reason(s) for Change: *Manufacturing process improvements*

Description of Change:

1. Housing and Terminal Differs



## 2. PCB Layout differs



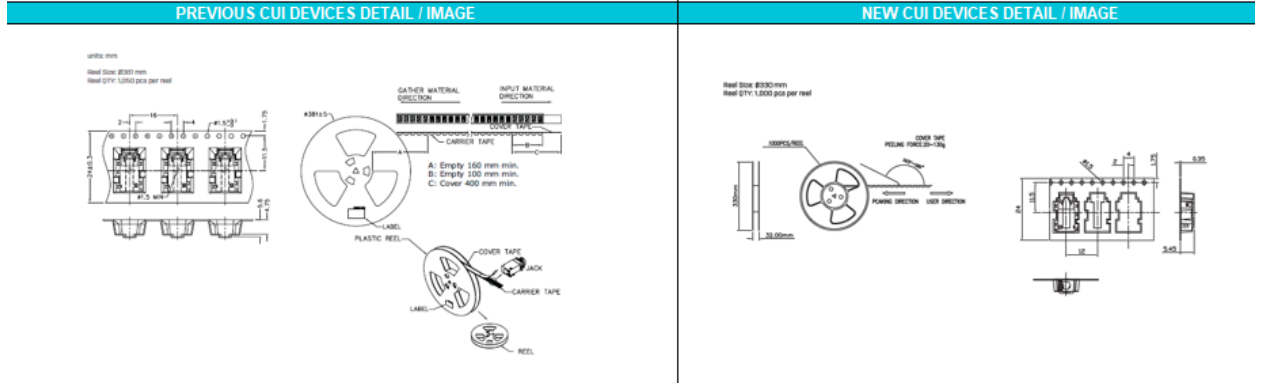
## 3. Housing material differs

|             | PREVIOUS CUI DEVICES DETAIL / IMAGE  | NEW CUI DEVICES DETAIL / IMAGE |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
|-------------|--|--------------------------------|----------|---------|------------|--------------|------------|------------|--------------|------------|------------|--------------|------------|------------|--------------|------------|-------------|--------------|------------|-------------|--------------|------------|---------|-------|--|--|--|----------|---------|------------|---------------------|------------------------|------------|---------------------|------------------------|------------|---------------------|------------------------|------------|---------------------|------------------------|-------------|---------------------|------------------------|-------------|---------------------|------------------------|---------|----------------|-------|
|             | <table border="1"> <thead> <tr> <th></th> <th>MATERIAL</th> <th>PLATING</th> </tr> </thead> <tbody> <tr> <td>terminal 1</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>terminal 2</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>terminal 3</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>terminal 4</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>terminal 10</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>terminal 11</td> <td>copper alloy</td> <td>gold flash</td> </tr> <tr> <td>plastic</td> <td>PA10T</td> <td></td> </tr> </tbody> </table> |                                | MATERIAL | PLATING | terminal 1 | copper alloy | gold flash | terminal 2 | copper alloy | gold flash | terminal 3 | copper alloy | gold flash | terminal 4 | copper alloy | gold flash | terminal 10 | copper alloy | gold flash | terminal 11 | copper alloy | gold flash | plastic | PA10T |  | <table border="1"> <thead> <tr> <th></th> <th>MATERIAL</th> <th>PLATING</th> </tr> </thead> <tbody> <tr> <td>terminal 1</td> <td>copper alloy t=0.20</td> <td>gold flash over nickel</td> </tr> <tr> <td>terminal 2</td> <td>copper alloy t=0.25</td> <td>gold flash over nickel</td> </tr> <tr> <td>terminal 3</td> <td>copper alloy t=0.20</td> <td>gold flash over nickel</td> </tr> <tr> <td>terminal 4</td> <td>copper alloy t=0.25</td> <td>gold flash over nickel</td> </tr> <tr> <td>terminal 10</td> <td>copper alloy t=0.25</td> <td>gold flash over nickel</td> </tr> <tr> <td>terminal 11</td> <td>copper alloy t=0.20</td> <td>gold flash over nickel</td> </tr> <tr> <td>housing</td> <td>PA9T (UL94V-0)</td> <td>black</td> </tr> </tbody> </table> |  | MATERIAL | PLATING | terminal 1 | copper alloy t=0.20 | gold flash over nickel | terminal 2 | copper alloy t=0.25 | gold flash over nickel | terminal 3 | copper alloy t=0.20 | gold flash over nickel | terminal 4 | copper alloy t=0.25 | gold flash over nickel | terminal 10 | copper alloy t=0.25 | gold flash over nickel | terminal 11 | copper alloy t=0.20 | gold flash over nickel | housing | PA9T (UL94V-0) | black |
|             | MATERIAL   | PLATING                        |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 1  | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 2  | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 3  | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 4  | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 10 | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 11 | copper alloy   | gold flash                     |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| plastic     | PA10T  |                                |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
|             | MATERIAL   | PLATING                        |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 1  | copper alloy t=0.20  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 2  | copper alloy t=0.25  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 3  | copper alloy t=0.20  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 4  | copper alloy t=0.25  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 10 | copper alloy t=0.25  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| terminal 11 | copper alloy t=0.20  | gold flash over nickel         |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |
| housing     | PA9T (UL94V-0)   | black                          |          |         |            |              |            |            |              |            |            |              |            |            |              |            |             |              |            |             |              |            |         |       |  |  |  |          |         |            |                     |                        |            |                     |                        |            |                     |                        |            |                     |                        |             |                     |                        |             |                     |                        |         |                |       |

## 4. Reflow Soldering Difference

|                                | PREVIOUS CUI DEVICES DETAIL / IMAGE   | NEW CUI DEVICES DETAIL / IMAGE |                        |     |       |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
|--------------------------------|---|--------------------------------|------------------------|-----|-------|-----|-------|--------------|---------------------------|--|----|--|----|-------------------------------|--------------------|-----|-----|-----|----|--------------------------------|--|--|--|--|--|---|-----------|------------------------|-----|-----|-----|-------|--------------|-------------------------|--|----|--|----|------------------|--------------------|-----|-----|--|----|
|                                | <p><b>SOLDERABILITY</b></p> <table border="1"> <thead> <tr> <th>parameter</th> <th>conditions/description</th> <th>min</th> <th>typ</th> <th>max</th> <th>units</th> </tr> </thead> <tbody> <tr> <td>refl storage</td> <td>at relative humidity &lt;80%</td> <td></td> <td>40</td> <td></td> <td>°C</td> </tr> <tr> <td>reflow soldering<sup>1</sup></td> <td>see reflow profile</td> <td>255</td> <td>260</td> <td>265</td> <td>°C</td> </tr> <tr> <td>drying conditions<sup>2</sup></td> <td>parts in reel: bake at 40°C ±5°C for 72 hours<br/>parts removed from reel: bake at 40°C ±5°C for 10 hours</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Note: 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature &lt;30°C &amp; relative humidity &lt;60%.<br/>4. When exceeding floor life by &gt;10 hours.</p> | parameter                      | conditions/description | min | typ   | max | units | refl storage | at relative humidity <80% |  | 40 |  | °C | reflow soldering <sup>1</sup> | see reflow profile | 255 | 260 | 265 | °C | drying conditions <sup>2</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |  |  |  |  | <p><b>SOLDERABILITY</b></p> <table border="1"> <thead> <tr> <th>parameter</th> <th>conditions/description</th> <th>min</th> <th>typ</th> <th>max</th> <th>units</th> </tr> </thead> <tbody> <tr> <td>refl storage</td> <td>5-25°C, 20-75% humidity</td> <td></td> <td>40</td> <td></td> <td>°C</td> </tr> <tr> <td>reflow soldering</td> <td>see reflow profile</td> <td>255</td> <td>260</td> <td></td> <td>°C</td> </tr> </tbody> </table> <p>Note: 1. CUI Devices recommends usage of the product within 24 hours after TSS is opened. After 24 hours, CUI Devices recommends drying the parts prior to use.</p> | parameter | conditions/description | min | typ | max | units | refl storage | 5-25°C, 20-75% humidity |  | 40 |  | °C | reflow soldering | see reflow profile | 255 | 260 |  | °C |
| parameter                      | conditions/description  | min                            | typ                    | max | units |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| refl storage                   | at relative humidity <80%   |                                | 40                     |     | °C    |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| reflow soldering <sup>1</sup>  | see reflow profile  | 255                            | 260                    | 265 | °C    |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| drying conditions <sup>2</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours  |                                |                        |     |       |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| parameter                      | conditions/description  | min                            | typ                    | max | units |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| refl storage                   | 5-25°C, 20-75% humidity   |                                | 40                     |     | °C    |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |
| reflow soldering               | see reflow profile  | 255                            | 260                    |     | °C    |     |       |              |                           |  |    |  |    |                               |                    |     |     |     |    |                                |  |  |  |  |  |   |           |                        |     |     |     |       |              |                         |  |    |  |    |                  |                    |     |     |  |    |

## 5. Tape and reel packaging differs



Affected Date Code: **11/15/2022**

Product Availability: **Channel availability mid Q4**

Additional Information:

PCN Approval:

Operations/Quality



Product Management



Nick Wolfe 11/21/2022